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7. (AS TWICE AMENDED HEREIN) A method according to claim 1, wherein a potential difference, between the respective ultimate voltages of said first and second erase pulses, is approximately the same as a discharge start voltage, between said first and second electrodes, and is smaller than said discharge start voltage.

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13. (AS TWICE AMENDED HEREIN) An apparatus according to claim 10, wherein said controller applies, as said first and second erase pulses, pulse voltages having waveforms whose change rates, per unit time of the application voltage, change with time.

14. (AS TWICE AMENDED HEREIN) An apparatus according to claim 10, further comprising a voltage setting unit setting a potential difference, between the respective ultimate voltages of said first and second erase pulses, to be approximately the same as a discharge start voltage, between said first and second electrodes, and to be smaller than said discharge start voltage.

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18. (AS TWICE AMENDED HEREIN) An apparatus according to claim 10, wherein said controller synchronizes or delays a rise start timing of said first erase pulse with, or from, a fall start timing of said second erase pulse.

REMARKS

The foregoing amendments correct dependencies of dependent claims 4-7, 13, 14, and 18 to depend from the respective independent claims 1 and 10 rather than from intermediate dependent claims, since the specified dependent claims are properly supported, from an antecedent basis, in the respective independent claims. Further, these dependent claims have been corrected with respect to punctuation and to improve form.

No new matter is presented and, accordingly, approval and entry of the amended claims are respectfully requested.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please AMEND the following claims:

1. (AS ONCE AMENDED) A plasma display driving method wherein:
each frame comprises plural subfields, each of said subfields including a reset period performing an erase discharge to initialize a wall charge distribution in each cell, an address period generating a wall charge distribution in accordance with display data, and a sustain discharge period discharging in accordance with the wall charge distribution generated in the cell during said address period, to emit light; and
said reset period includes first and second erase discharge periods performing erase discharges for cells wherein the erase discharge in said second erase discharge period is achieved by applying, to a first electrode, a first erase pulse whose application voltage continuously changes with time in a positive direction and applying, to a second electrode, a second erase pulse whose application voltage continuously changes with time in a negative direction.
2. (AS ONCE AMENDED) A method according to claim 1, wherein:
a full-surface write discharge and a full-surface erase discharge are performed during said reset period only in a specific subfield among the plural subfields in each frame;
erase discharges to erase wall charges accumulated in cells are performed during said reset periods in the remaining subfields without performing said full-surface write discharges; and
the erase discharges performed separately in said first and second erase discharge periods are executed in each subfield except for said specific subfield.
4. (TWICE AMENDED) A method according to claim [3] 1, wherein [the] pulse widths of said first and second erase pulses have time widths required to reach ultimate voltages of said first and second erase pulses.
5. (TWICE AMENDED) A method according to claim [3] 1, wherein said first and second erase pulses have waveforms whose change rates, per unit time of the application voltage, change with time.

6. (TWICE AMENDED) A method according to claim [3] 1, wherein said first and second erase pulses have waveforms whose change rates, per unit time of the application voltage are constant.

7. (TWICE AMENDED) A method according to claim [3] 1, wherein a potential difference, between the respective ultimate voltages of said first and second erase pulses, is approximately the same as a discharge start voltage, between said first and second electrodes, and is smaller than said discharge start voltage.

8. (AS UNAMENDED) A method according to claim 7, wherein at least one of said ultimate voltages of said first and second erase pulses is variable.

9. (AS ONCE AMENDED) A method according to claim 3, wherein the rise start timing of said first erase pulse is synchronized with, or delayed from, the fall start timing of said second erase pulse.

10. (AS ONCE AMENDED) A plasma display driving apparatus driving a plasma display panel wherein, in each of plural subfields constituting one frame, each of said subfields includes a reset period performing an erase discharge to initialize a wall charge distribution in each cell, an address period generating a wall charge distribution in accordance with display data, and a sustain discharge period discharging each cell in accordance with the wall charge distribution generated in the cell during said address period, to emit light, said apparatus comprising:

a controller performing erase discharges for cells in first and second erase discharge periods in said reset period;

wherein said controller performs the erase discharge in said second erase discharge period by applying, to a first electrode, a first erase pulse whose application voltage continuously changes with time in a positive direction and applying, to a second electrode, a second erase pulse whose application voltage continuously changes with time in a negative direction.

11. (AS ONCE AMENDED) An apparatus according to claim 10, wherein:
said controller performs a full-surface write discharge and a full-surface erase discharges during said reset period only in a specific subfield among the plural subfields in each frame, erase discharges to erase wall charges accumulated in cells during said reset periods in the remaining subfields without performing said full-surface write discharges, and executes the erase discharges, performed separately in said first and second erase discharge periods in each subfield except for said specific subfield.
13. (TWICE AMENDED) An apparatus according to claim [12] 10, wherein said controller applies, as said first and second erase pulses, pulse voltages having waveforms whose change rates, per unit time of the application voltage, change with time.
14. (TWICE AMENDED) An apparatus according to claim [12] 10, further comprising a voltage setting unit setting a potential difference₁ between the respective ultimate voltages of said first and second erase pulses, to be approximately the same as a discharge start voltage₁ between said first and second electrodes, and to be smaller than said discharge start voltage.
15. (AS ONCE AMENDED) An apparatus according, to claim 14, wherein said voltage setting unit selectively changes at least one of the respective ultimate voltages of said first and second erase pulses.
16. (AS ONCE AMENDED) An apparatus according to claim 15, wherein said voltage setting unit comprises a first resistor in a pulse generation circuit generating said first erase pulse and a second resistor in a pulse generation circuit generating said second erase pulse, and at least one of said first and second resistors is variable:
17. (AS ONCE AMENDED) An apparatus according to claim 16, wherein said first and second resistors have respective, different resistance values.
18. (TWICE AMENDED) An apparatus according to claim [12] 10, wherein said controller synchronizes or delays [the] a rise start timing of said first erase pulse with, or from, [the] a fall start timing of said second erase pulse.